| L Number | Hits | Search Text | DB | Time stamp |
|----------|------|---|------------|------------------|
| 1 | 25 | (((multiple or plural\$3 or several or | USPAT; | 2004/03/03 09:08 |
| | | many) near2 (substrate)) with (\$4CVD or | US-PGPUB; | |
| | | coat\$3 or deposit\$3) with (increas\$4) | EPO; JPO; | |
| | | near4 (product\$6 or throughput)) | DERWENT; | |
| | | | IBM TDB | |
| 2 | 206 | (((multiple or plural\$3 or several or | USPĀT; | 2004/03/03 09:09 |
| | | many) near2 (substrate)) with (\$4CVD or | US-PGPUB; | |
| | | coat\$3 or deposit\$3) with (production or | EPO; JPO; | |
| | | productivity or throughput)) | DERWENT; | |
| | | | IBM TDB | |
| 3 | 47 | (((multiple or plural\$3 or several or | USPAT; | 2004/03/03 09:09 |
| _ | | many) near2 (substrate)) with (\$4CVD or | US-PGPUB; | |
| | | coat\$3 or deposit\$3) with (production or | EPO; JPO; | |
| | | productivity or throughput) near4 (high\$3 | DERWENT; | |
| | | or increas\$4 or rais\$3)) | IBM TDB | |
| 4 | 22 | ((((multiple or plural\$3 or several or | USPAT; | 2004/03/03 09:09 |
| • | | many) near2 (substrate)) with (\$4CVD or | US-PGPUB; | 2001,03,03 |
| | | coat\$3 or deposit\$3) with (production or | EPO; JPO; | |
| | | productivity or throughput) near4 (high\$3 | DERWENT; | |
| | | or increas\$4 or rais\$3))) not (((multiple | IBM TDB | |
| | | or plural\$3 or several or many) near2 | | |
| | | (substrate)) with (\$4CVD or coat\$3 or | | |
| | | deposit\$3) with (increas\$4) near4 | | |
| | | (product\$6 or throughput))) | } | |
| _ | 27 | | USPAT; | 2004/03/02 10:23 |
| | | Agere.as.) and ((CNT or SWCNT or MWCNT or | US-PGPUB; | 2004/03/02 10.23 |
| | | SWNT or MWNT or nanotube or (nano adj | EPO; JPO; | |
| | | tube) or nanopipe or (nano adj pipe) or | DERWENT; | |
| | | (fullerene adj tube) or (buckytube) or | IBM TDB | |
| | | | I TEM_I DE | |
| | | (bucky adj tube) or nanofiber or (nano adj | 1 | |
| | | fiber) or nanofilament or (nano adj | | |
| | | filament) or nanorod or nanowire or (nano | | ľ |
| | | adj wire) or nanostructure or (nano adj | | |
| | | structure)) with (defect\$4 or kink\$3 or | | |
| | 0.7 | rectifi\$5 or Schottky or diode)) | | 0004/00/00 11 10 |
| · - | 27 | (| USPAT; | 2004/03/02 11:18 |
| | | Agere.as.) and ((CNT or SWCNT or MWCNT or | US-PGPUB; | |
| | | SWNT or MWNT or nanotube or (nano adj | EPO; JPO; | |
| · | | tube) or nanopipe or (nano adj pipe) or | DERWENT; | |
| | | (fullerene adj tube) or (buckytube) or | IBM_TDB | |
| | | (bucky adj tube) or nanofiber or (nano adj | | |
| | | fiber) or nanofilament or (nano adj | 1 | |
| | | filament) or nanorod or nanowire or (nano | 1 | |
| | | adj wire) or nanostructure or (nano adj | 1 | |
| ! | | structure)) with (defect\$4 or kink\$3 or | | |
| | | rectifi\$5 or Schottky or diode or pn or (p | | |
| | | adj n) or junction)) | | |
| - | 4 | (Bower.in. or Zhu.in. or Jin.in. or | USPAT; | 2004/03/02 10:32 |
| į | | Agere.as.) and ((CNT or SWCNT or MWCNT or | US-PGPUB; | |
| | | SWNT or MWNT or nanotube or (nano adj | EPO; JPO; | |
| Ì | | tube) or nanopipe or (nano adj pipe) or | DERWENT; | |
| | | (fullerene adj tube) or (buckytube) or | IBM_TDB | |
| | | (bucky adj tube) or nanofiber or (nano adj | _ | |
| | | fiber) or nanofilament or (nano adj | | |
| l | | filament) or nanorod or nanowire or (nano | | |
| | | adj wire) or nanostructure or (nano adj | | |
| l | | structure)) with (defect\$4 or kink\$3 or | | |
| | | bent or bend\$3 or curly or curling or | | |
| | | curl) with (straight or align\$4 or | | |
| | | conform\$6)) | | |

| - | 4 | (Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (straight or align\$4 or conform\$6)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/03/02 10:53 |
|---|---|--|--|------------------|
| | 7 | (Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) same (straight or align\$4 or conform\$6)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/03/02 10:34 |
| - | 3 | ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWCNT or swnt or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) same (straight or align\$4 or conform\$6))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/03/02 10:33 |
| _ | 5 | nanostructure or (nano adj structure)) with (defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (straight or align\$4 or conform\$6))) (Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma or (electric\$4 near2 field) or \$4CVD or (vapor near2 deposit\$3))) | USPAT; US-PGPUB; EPO; JPO; .DERWENT; IBM_TDB | 2004/03/02 11:26 |

| | - | | r | 1 000 1 100 100 100 100 |
|---|------|---|-----------|-------------------------|
| - | 2 | 1 1 | USPAT; | 2004/03/02 11:30 |
| | | Agere.as.) and (CNT or SWCNT or MWCNT or | US-PGPUB; | |
| 1 | | SWNT or MWNT or nanotube or (nano adj | EPO; JPO; | |
| - | | tube) or nanopipe or (nano adj pipe) or | DERWENT; | |
| 1 | | (fullerene adj tube) or (buckytube) or | IBM_TDB | |
| | | (bucky adj tube) or nanofiber or (nano adj | | |
| | | fiber) or nanofilament or (nano adj | | |
| | | filament) or nanorod or nanowire or (nano | | |
| 1 | | adj wire) or nanostructure or (nano adj | | |
| | | structure)) and ((defect\$4 or kink\$3 or | | |
| | | bent or bend\$3 or curly or curling or curl | 1 | |
| | | or curled) with (off) with (plasma or | | |
| | _ | (electric\$4 near2 field))) | | |
| - | 1 | (Bower.in. or Zhu.in. or Jin.in. or | USPAT; | 2004/03/02 11:32 |
| | | Agere.as.) and (CNT or SWCNT or MWCNT or | US-PGPUB; | · |
| | | SWNT or MWNT or nanotube or (nano adj | EPO; JPO; | |
| | | tube) or nanopipe or (nano adj pipe) or | DERWENT; | |
| |] | (fullerene adj tube) or (buckytube) or | IBM_TDB | |
| | | (bucky adj tube) or nanofiber or (nano adj | | |
| | | fiber) or nanofilament or (nano adj | | |
| | | filament) or nanorod or nanowire or (nano | | |
| | | adj wire) or nanostructure or (nano adj | | |
| ŀ | | structure)) and ((off) near4 (plasma or | | |
| | | (electric\$4 near2 field))) | | |
| - | 2740 | ((427/569,575,577) or | USPAT; | 2004/03/02 10:47 |
| | | (118/723R,723MW)).CCLS. | US-PGPUB | |
| - | 1266 | (427/77,78,122).CCLS. | USPAT; | 2004/03/02 10:48 |
| | | | US-PGPUB | |
| - | 677 | ((427/79) or (438/570)).CCLS. | USPAT; | 2004/03/02 10:48 |
| | | | US-PGPUB | |
| - | 875 | (427/249.1,255.23,255.28).CCLS. | USPAT; | 2004/03/02 10:48 |
| | İ | | US-PGPUB | |
| - | 1461 | (427/256,261).CCLS. | USPAT; | 2004/03/02 10:48 |
| | | | US-PGPUB | |
| - | 232 | (427/301).CCLS. | USPAT; | 2004/03/02 10:48 |
| | | | US-PGPUB | |
| - | 14 | (427/903).CCLS. | USPAT; | 2004/03/02 10:49 |
| | | | US-PGPUB | |
| - | 1424 | (423/445R,445B,447.1,447.2,447.3).CCLS. | USPAT; | 2004/03/02 10:49 |
| | | | US-PGPUB | |
| - | 8273 | (((427/569,575,577) or | USPAT; | 2004/03/02 10:49 |
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R,445B,447.1,447.2,447.3).CCLS.) | | |
| - | 2 | (((427/79) or (438/570)).CCLS.) and (CNT | USPAT; | 2004/03/02 10:51 |
| | | or SWCNT or MWCNT or SWNT or MWNT or | US-PGPUB | [|
| | | nanotube or (nano adj tube) or nanopipe or | | · |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| - | 16 | ((427/256,261).CCLS.) and (CNT or SWCNT or | USPAT; | 2004/03/02 10:51 |
| | | MWCNT or SWNT or MWNT or nanotube or (nano | US-PGPUB | |
| | | adj tube) or nanopipe or (nano adj pipe) | | |
| | | or (fullerene adj tube) or (buckytube) or | | |
| | | (bucky adj tube) or nanofiber or (nano adj | | |
| | | fiber) or nanofilament or (nano adj | | |
| 1 | | filament) or nanorod or nanowire or (nano | | |
| | · · | adj wire) or nanostructure or (nano adj | | |
| | | structure)) | | |

| r | | (///407/660 676 677) | USPAT; | 2004/03/02 12:12 |
|----------|-----|--|----------|------------------|
| _ | 16 | ((((427/569,575,577) or | US-PGPUB | 2004/03/02 12:12 |
| | | (118/723R,723MW)).CCLS.) | US-FGFUB | |
| | ŀ | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | 1 | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | 1 |
| |) | ((427/903).CCLS.) | | |
| | | ((423/445R,445B,447.1,447.2,447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | ļ | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | 1 |
| | 1 | nanostructure or (nano adj structure)) | | |
| 1 | 1 | with (defect\$4 or kink\$3 or bent or bend\$3 | | |
| j | | or curly or curling or curl or curled) | | |
| Ī | | with (straight or align\$4 or conform\$6)) | | |
| | 15 | (((((427/569,575,577) or | USPAT; | 2004/03/02 10:55 |
| - | 1.3 | (((((427/309,373,377) 01 (118/723R,723MW)).CCLS.) | US-PGPUB | 2004/03/02 10.33 |
| | | | 03-16100 | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | 1 |
| | | ((427/903).CCLS.) | | İ |
| | | ((423/445R,445B,447.1,447.2,447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | 1 |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | with (defect\$4 or kink\$3 or bent or bend\$3 | | |
| | | or curly or curling or curl or curled) | 1 | |
| | | with (straight or align\$4 or conform\$6))) | | |
| | | not ((Bower.in. or Zhu.in. or Jin.in. or | 1 | |
| | | Agere.as.) and ((CNT or SWCNT or MWCNT or | 1 | |
| | | SWNT or MWNT or nanotube or (nano adj | 1 | |
| | | tube) or nanopipe or (nano adj pipe) or | 1 | |
| | Ì | (fullerene adj tube) or (buckytube) or | | |
| | | (bucky adj tube) or nanofiber or (nano adj | | |
| | | fiber) or nanofilament or (nano adj | 1 | |
| | | , · · · · · · · · · · · · · · · · · · · | 1 | |
| | | filament) or nanorod or nanowire or (nano | | |
| | | adj wire) or nanostructure or (nano adj | | |
| | | structure)) same (defect\$4 or kink\$3 or | | |
| _ | | bent or bend\$3 or curly or curling or curl | | |
| | | or curled) same (straight or align\$4 or | | |
| | ļ | conform\$6))) | 1 | <u></u> |

| - 65 | ((((427/569,575,577) or | USPAT; | 2004/03/02 11:07 |
|------|--|----------|------------------|
| | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | (438/570)).CCLS.) | | |
| | ((427/249.1,255.23,255.28).CCLS.) | | [|
| | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| ļ | ((427/903).CCLS.) | | |
| | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | and ((CNT or SWCNT or MWCNT or SWNT or | | 1 |
| | MWNT or nanotube or (nano adj tube) or | | • |
| | nanopipe or (nano adj pipe) or (fullerene | | |
| | adj tube) or (buckytube) or (bucky adj | | |
| l i | tube) or nanofiber or (nano adj fiber) or | | 1 |
| | nanofilament or (nano adj filament) or | | |
| | nanorod or nanowire or (nano adj wire) or | | |
| l | nanostructure or (nano adj structure)) | | |
| | with (defect\$4 or kink\$3 or bent or bend\$3 | | |
| | or curly or curling or curl or curled)) | | |
| | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | MWNT or nanotube or (nano adj tube) or | | |
| | nanopipe or (nano adj pipe) or (fullerene | | |
| | adj tube) or (buckytube) or (bucky adj | | |
| | tube) or nanofiber or (nano adj fiber) or | | |
| | nanofilament or (nano adj filament) or | | |
| | nanorod or nanowire or (nano adj wire) or | | * |
| | nanostructure or (nano adj structure)) | | 1 |
| | with (straight or align\$4 or conform\$6)) | | |

| - | 49 | (((((427/569,575,577) or | USPAT; | 2004/03/02 11:07 |
|---|-----|--|----------|------------------|
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| ļ | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| ĺ | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| i | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | .,. | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | with (defect\$4 or kink\$3 or bent or bend\$3 | | |
| | | or curly or curling or curl or curled)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | • | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | with (straight or align\$4 or conform\$6))) | | |
| | | not (((((427/569,575,577) or | | |
| | | (118/723R,723MW)).CCLS.) | | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| [| | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R,445B,447.1,447.2,447.3).CCLS.)) | | |
| 1 | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | 1 | nanopipe or (nano adj pipe) or (fullerene | | |
| | 1 | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | 1 | nanofilament or (nano adj filament) or | | 1 |
| | | nanorod or nanowire or (nano adj wire) or | | 1 |
| | | nanostructure or (nano adj structure)) | | |
| | | with (defect\$4 or kink\$3 or bent or bend\$3 | | |
| | | or curly or curling or curl or curled) | | |
| | | with (straight or align\$4 or conform\$6))) | | |
| | 1 | WICH (SCHULGHE OF GILGHY) OF COHFOIM(O) / / | I | 1 |

| (118/723R,723WM)).CCLS.) ((427/777,81,122).CCLS.) ((427/79) or (438/570)).CCLS.) ((427/7491,1255.23,255.28).CCLS.) ((427/2491,1255.23,255.28).CCLS.) ((427/2491,1255.23,255.28).CCLS.) ((427/845R,445B,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MNNT or nanotube or (nano adj tube) or nanopipe or (nano adj tube) or nanoriber or (nano adj tube) or nanoriber or (nano adj tube) or nanorico or nanoriber or (nano adj tube) or nanorico or nanoriber or (nano adj tiber) or nanorico or nanoriber or (nano adj tiber) or nanorico or nanoriber or (nano adj tiber) or nanorico or nanoriber or (nano adj tuber) or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or nanorico or (nano adj tuber) or nanorico or | Γ= | 52 | (((((427/569,575,577) or | USPAT; | 2004/03/02 11:20 |
|---|----|----|---|----------|------------------|
| ((427/77,78,122).CCLS.) (((427/79) or (438/570)).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/349.4,458,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj pipe) or (fullerene adj tube) or nanotube or (nano adj pipe) or (fullerene adj tube) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanostructure or (nano adj structure)) with (rectifis5 or Schottky or diode or pn or (p adj n) or 37junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MNNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofilament or (nano adj filament) or nanofilament or (nano adj structure)) with (defect\$4 or kink\$3 or rectifis\$5 or Schottky or diode or pn or (p adj n) or junction))) - ((((427/56,575,577) or (118/723R,723MW)).CCLS.) (((427/77,18,122).CCLS.) (((427/79), al.2)).CCLS.) (((427/756,261).CCLS.) ((427/7301).CCLS.) ((427/756,261).CCLS.) ((427/7301).CCLS.) ((427/795,261).CCLS.) ((427/796).CCLS.) ((427/7 | |] | (((((427/303/373/37)), CCLS.) | | 2001,00,00 21,00 |
| (438/5701).CCLS.) ((427/245,261).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/303).CCLS.) ((427/405).CCLS.) ((427/405).CCLS.) ((427/405).CCLS.) ((427/445R,445R,445R,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SNNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofiber or (nano adj fiber) or nanoribament or (nano adj fiber) or nanorod or nanowire or (nano adj wire) or nanorod or nanowire or (nano adj wire) or nanorod or nanowire or (nano adj wire) or nanorod or padj no s 79junction))) not ((180wer.in. or Zhu.in. or Jin.in. or Ageze.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (fullerene adj tube) or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj fiber) or nanofilament or (nano adj structure)) with (defect4 or kink\$3 or rectifis5 or Schottky or diode or pn or (p adj n) or Junction))) - (((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/749,1,223.CCLS.) (((427/79) or (433/5701).CCLS.) ((427/7301).CCLS.) ((427/745R,445R,445R,447.1,447.2,447.3).CCLS.)) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj filament) or nanofiber or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofiber or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or n | | | | 00 10102 | |
| ((427/249.1,255.23,255.28).CCLS.) ((427/249.261).CCLS.) ((427/903).CCLS.) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofiber or (nano adj pipe) or (fullerene adj tube) or nanofiber or (nano adj fiber) or nanoridament or (nano adj filament) or nanoridament or (nano adj filament) or nanorod or nanoviructure or (nano adj structure)) with (rectifi55 or Schottky or diode or pn or (p adj n) or \$7junction)) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj fiber) or nanofilament or (nano adj filament) or nanofilament or (nano adj structure) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction))) - (((((227/569,575,577) or (118/723R)).CCLS.)) ((1427/747,78,122).CCLS.) (((427/7301).CCLS.)) ((427/7456,261).CCLS.) ((427/7301).CCLS.) ((427/7356,261).CCLS.) ((427/7301).CCLS.)) ((427/736,2261).CCLS.) ((427/7301).CCLS.)) and (ONT or SWCNT or MWCNT or SWNT or MWNT or nanofiber or (nano adj filament) or nanofiber or (nano adj tibe) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofiber or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament) or nanofiber or (nano adj filament | | , | | | |
| ((427/256,261).CCLS.) ((427/303).CCLS.) ((427/405R,445R,445R,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MRNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanorfilament or (nano adj fiber) or nanorod or nanowire or (nano adj fire) or nanostructure or (nano adj structure)) with (rectifi\$5 or Schottky or diode or pr or (p adj n) or \$7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanofilament or (nano adj structure) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or ((1427/756,585,575,577) or (118/723R,723MN).CCLS.) ((427/748,122).CCLS.) (((427/79) or (438/570)).CCLS.) ((427/256,261).CCLS.) (((427/301).CCLS.) ((427/256,261).CCLS.) ((1427/301).CCLS.) ((427/295,261).CCLS.) ((1427/301).CCLS.) ((1427/ | | | | | |
| ((427/493).CCLS.) ((423/445R, 445B, 447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanordo or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (rectifis5 or Schottky or diode or pn or (p adj n) or \$7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction))) ((((427/569,575,577) or (118/723R,723Mw)).CCLS.) ((427/77,78,122).CCLS.) (((427/79) or (438/570).CCLS.) ((427/77,78,122).CCLS.)) ((427/249,1,255.23,255.28).CCLS.) ((427/249,1,255.23,255.28).CCLS.) ((427/249,1,255.23,255.28).CCLS.) ((427/30).CCLS.) ((427/56,661).CCLS.) ((427/301).CCLS.) ((427/56) or (bucky adj tube) or nanofiber or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanordod or nanowire or or or or or or or or or or or or or or o | | | | | |
| and ((CMT or SWCNT or SWNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofilament or (nano adj filement) or nanofilament or (nano adj filement) or nanostructure or (nano adj filement) or nanostructure or (nano adj structure)) with (rectifis\$ or Schottky or diode or pn or (p adj n) or \$7]unction)) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or (bucky adj tube) or nanofiber or (nano adj filement) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj filement) or nanofiber or (nano adj filement) or nanofiber or (nano adj filement) or nanofiber or (nano adj structure)) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction))) - (((427/569,575,577)) or (118/723R,723MW)). CCLS.) ((427/77,78,122). CCLS.) ((427/779) or (438/570)). CCLS.) ((427/7903). CCLS.) ((427/903). C | | | | | |
| and ((CNT or SWONT or MWCNT or SWNT or NWNT or nanotube or (nano adj tube) or nanopipe or (nano adj tube) or (nanopipe or (nano adj tube) or nanopipe or (nano adj filer) or nanofilament or (nano adj filer) or nanofilament or (nano adj filer) or nanordor or nanordor or nanoward or nanoward or nanoward or nanoward or nanostructure or (nano adj structure)) with (rectifis or Schottky or diode or pn or (p adj n) or ?7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj tube) or nanopipe or (nano adj filer) or nanofilament or (nano adj filer) or nanofilament or (nano adj filer) or nanofilament or (nano adj structure)) with (defects or (nano adj structure)) with (defects or or rectifis or Schottky or diode or pn or (p adj n) or junction)) - ((((427/769,575,577)) or (((427/778),22).CCLS.)) (((427/778,122).CCLS.)) ((427/778,122).CCLS.) ((427/781,122).CCLS.) ((427/793).CCLS.) ((427/793).CCLS.) ((427/793).CCLS.) ((427/793).CCLS.) ((427/793).CCLS.) ((427/793).CCLS.) ((427/603).CCLS.) ((427/603). | | | | | |
| MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanostructure or (nano adj structure)) with (rectifiss or Schottky or diode or pn or (p adj n) or \$7junction)) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((OTT or SWCNT or MWCNT or SWNT or MWCNT or Namor or (bucky adj tube) or nanofiber or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj filament) or nanostructure or (nano adj filament) or nanostructure or (nano adj structure)) with (defects4 or kink\$3 or rectifis5 or Schottky or diode or pn or (p adj n) or junction))) 6 (((427/569,575,577) or (118/7238,723MW)).CCLS.) ((427/77,78,122).CCLS.) ((427/79) or (4338/570)).CCLS.) ((427/7491,225).23,255.28).CCLS.) ((427/2491,255.23,255.28).CCLS.) ((427/265,651).CCLS.) ((427/301).CCLS.) ((427/303).CCLS.) ((427/303).CCLS.) ((427/304).47.1,447.2,447.3).CCLS.)) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj filament) or nanofilament or (nano adj tube) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanorid o | | | | | |
| nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj fiber) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure) with (rectifis\$ or Schottky or diode or pn or (p adj n) or \$7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj pipe) or (fullerene adj tube) or nanofilament or (nano adj pipe) or (fullerene adj tube) or nanomoriber or (nano adj fiber) or nanoroid or nanowire or (nano adj filament) or nanorod or nanowire or (nano adj structure)) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction))) 6 ((((427)569,575,577) or (118/723R,723MM)).CCLS.) (((427)77,78,122).CCLS.) (((427)77,78,122).CCLS.) (((427)77,78,122).CCLS.) ((427)703).CCLS.) ((427)903).CCLS.) ((42 | | | 1 | | |
| adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (rectifiss or Schottky or diode or pn or (p adj n) or Sjunction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MNNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure) with (defects4 or kinks3 or rectifis5 or Schottky or diode or pn or (p adj n) or junction))) ((((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/77,78,122).CCLS.) (((427/79) or (438/570)).CCLS.) ((427/7491,255.23,255.28).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/403).CCLS.) ((427/403).CCLS.)) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofilament or (nano adj filament) or nanostructure or (nano adj structure) and ((defects4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | ! |
| tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (rectifi§5 or Schottky or diode or pn or (p adj n) or \$7;unction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or mWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj filament) or nanorod or nanowire or (nano adj filament) or nanorod or nanowire or (nano adj structure)) with (defect§4 or kink§3 or rectifi§5 or Schottky or diode or pn or (p adj n) or junction)) 6 ((((427/569,575,577) or (118/723R,723MW)).CCLS.) (((427/79) or (438/570)).CCLS.) (((427/79) .CLS.) ((427/491,255.23,255.28).CCLS.) ((427/491,255.23,255.28).CCLS.) ((427/491,255.23).CLS.) ((427/301).CCLS.) ((427/903).CCLS.) ((427/903).CCLS.) ((427/903).CCLS.) ((427/903).CCLS.) (or (nano adj pipe) or (fullerene adj tube) or nanofiber or (nano adj filament) or nanomorod or nanowire or (nano adj wire) or nanofiber or (nano adj filament) or nanomorod or nanowire or (nano adj wire) or nanofiber or (nano adj structure)) and ((defect§4 or kink§3 or bent or benn\$3 or curly or curling or curl or curled) with (off or plasma or (electric§4 near2 field) or thermal§3 or pyrol§6 or \$4CVD or (vapor near2 deposit§3))) and ((straight or align§4 or conform§6) with (on or plasma) | | | | | |
| nanofilament or (nano adj filament) or nanord or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (rectifis5 or Schottky or diode or pr or (p adj n) or \$7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj filament) or nanorid or nanowire or (nano adj wire) or nanostructure or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (defects4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction)) (((427/569,575,577) or (118/7287,723WM)).CCLS.) ((427/777,78,122).CCLS.) (((427/79) or (438/570)).CCLS.) (((427/79)) or (438/570)).CCLS.) ((427/301).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/249.3).CCLS.)) ((427/393).CCLS.)) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and (CNT or SWCNT or MWCNT or NONT or manotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofilament or (nano adj filament) or nanoriber or (nano adj filament) or nanoriber or (nano adj filament) or nanorilament or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 neat? field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor neat? deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma) | | } | | | |
| nanord or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (rectifi\$5 or Schottky or diode or pn or (p adj n) or \$7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWT or MWNT or nanotube or (nano adj tube) or (fullerene adj tube) or (hockytube) or (fullerene adj tube) or (nano adj pipe) or (fullerene adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanostructure or (nano adj structure)) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction))) 6 (((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/77,78,122).CCLS.) ((427/79) or (438/570).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/249.1) and (CNT or SWCNT or MWNT or nanotube or (nano adj tube) or nanofiber or (nano adj tube) or nanofiber or (nano adj filament) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 neatz field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor neat2 deposit\$3))) and ((Straight or align\$4 or conform\$6) with (on or plasma) | | | | | |
| nanostructure or (nano adj structure)) with (rectifi\$5 or Schottky or diode or pn or (p adj n) or \$7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanord or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction])) 6 (((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/77,78,122).CCLS.) (((427/79) or (438/570)).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/4903).CCLS.) ((427/301).CCLS.) ((427/4903).CCLS.) ((| 0. | | | | |
| with (rectifis5 or Schottky or diode or pn or (p adj n) or %7junction))) not ((Bower.in. or Zhu.in. or Jin.in. or Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filement) or nanorod or nanowire or (nano adj structure)) with (defect% or kink% 3 or rectifis5 or Schottky or diode or pn or (p adj n) or junction))) 6 ((((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/779,122).CCLS.) ((427/779) or (438/570)).CCLS.) ((427/779,122).CCLS.) ((427/730).CCLS.) ((427/793).CCLS.) ((427/301).CCLS.) ((427/301).CCLS.) ((427/301).CCLS.) ((427/301).CCLS.)) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofiber or (nano adj filement) or nanofilament or (nano adj filement) or nanofilament or (nano adj filement) or nanostructure or (nano adj structure)) and ((defect% or kink% 3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((Straight or align\$4 or conform\$6) with (on or plasma) | | | | | |
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| Agere.as.) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanostructure or (nano adj structure) with (defect\$4 or kink\$3 or rectifi\$5 or Schottky or diode or pn or (p adj n) or junction])) 6 ((((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/77) or (438/570)).CCLS.) ((427/77,78,122).CCLS.) ((427/79) or (438/570)).CCLS.) ((427/2491,255.23,255.28).CCLS.) ((427/2491,255.23,255.28).CCLS.) ((427/2491,255.23).CCLS.) ((427/301).CCLS.) ((427/903).CCLS.) ((427/903).CCLS.) ((427/903).CCLS.) ((427/903).CCLS.) or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or nanofilament or (nano adj filament) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 fileld) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
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| adj n) or junction))) ((((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/77,78,122).CCLS.) (((427/79) or (438/570)).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/903).CCLS.) ((427/903).CCLS.) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (buckytube) or or nanofiber or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
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| ((427/903).CCLS.) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanostructure or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
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| and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
| or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | 1 | | | | |
| or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
| or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
| nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
| nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | 1 | | | |
| nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | 1 | | | |
| nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | 1 | | <u> </u> | | |
| ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | 4.5 |
| curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | 1 | | | | |
| (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
| or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | | | | | |
| near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma | 1 | | | | |
| align\$4 or conform\$6) with (on or plasma | | | | | |
| | | | | | |
| i i i i i i i i i i i i i i i i i i i | | | or (electric\$4 near2 field) or \$4CVD or | | |
| (vapor near2 deposit\$3))) | | | | | |

| - | 1 | ((((427/569,575,577) or | USPAT; | 2004/03/02 12:00 |
|----|---|--|----------|------------------|
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and (CNT or SWCNT or MWCNT or SWNT or MWNT | | |
| | | or nanotube or (nano adj tube) or nanopipe | | |
| | | or (nano adj pipe) or (fullerene adj tube) | | |
| 1 | | or (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | 1 |
| | | curly or curling or curl or curled) with | | |
| 1. | | (off) with (plasma or (electric\$4 near2 | | |
| | | field))) | | |
| _ | 5 | | USPAT; | 2004/03/02 11:44 |
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and (CNT or SWCNT or MWCNT or SWNT or MWNT | | _ |
| | | or nanotube or (nano adj tube) or nanopipe | | · |
| | | or (nano adj pipe) or (fullerene adj tube) | | |
| | | or (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((off) near5 (plasma or (electric\$4 near2 | | |
| | | field))) | | |

| r = | 4 | (((((427/569,575,577) or | USPAT; | 2004/03/02 11:33 |
|--------------|----|--|----------|------------------|
| - | 4 | (((((427/369,375,377) 61 (118/723R,723MW)).CCLS.) | US-PGPUB | 2003/03/02 11.33 |
| | | ((427/77,78,122).CCLS.) (((427/79) or | 00 10100 | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R,445B,447.1,447.2,447.3).CCLS.)) | | |
| } | ł | and (CNT or SWCNT or MWCNT or SWNT or MWNT | | |
| | | or nanotube or (nano adj tube) or nanopipe | | |
| | | or (nano adj pipe) or (fullerene adj tube) | | |
| | | or (buckytube) or (bucky adj tube) or | | 1 |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((off) near5 (plasma or (electric\$4 near2 | | |
| | | field)))) not (((((427/569,575,577) or | | |
| | | (118/723R,723MW)).CCLS.) | | |
| 1 | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R,445B,447.1,447.2,447.3).CCLS.)) | | |
| | | and (CNT or SWCNT or MWCNT or SWNT or MWNT | | |
| | | or nanotube or (nano adj tube) or nanopipe | | |
| | | or (nano adj pipe) or (fullerene adj tube) | | |
| | | or (buckytube) or (bucky adj tube) or | | |
| } | | nanofiber or (nano adj fiber) or | | |
| | ļ | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | İ | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with | | |
| | | (off) with (plasma or (electric\$4 near2 | | |
| | | field)))) | | |
| - | 17 | 1 , , , , , , , , , , , , , , , , , , , | USPAT; | 2004/03/02 11:40 |
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| • | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and (CNT or SWCNT or MWCNT or SWNT or MWNT | | |
| | | or nanotube or (nano adj tube) or nanopipe | | |
| 1 | | or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | l | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((pulse or pulsed or intermit\$7 or | | |
| | | | | |
| | | | | |
| | | pulsing) near3 (plasma or (electric\$4 near2 field))) | | |

| - | 0 | ((((427/569,575,577) or | USPAT; | 2004/03/02 12:42 |
|----|-----|--|----------|------------------|
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | i | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and (CNT or SWCNT or MWCNT or SWNT or MWNT | | |
| | | or nanotube or (nano adj tube) or nanopipe | | |
| | | or (nano adj pipe) or (fullerene adj tube) | | |
| | | or (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | 1 | same ((pulse or pulsed or intermit\$7 or | | |
| | | pulsing) near3 (plasma or (electric\$4 | | |
| | | near2 field))) | İ | |
| 1_ | 74 | | USPAT; | 2004/03/02 11:48 |
| | '- | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | | | |
| | | tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| ŀ | | | | |
| | | nanostructure or (nano adj structure)) | | |
| | | same (pyrol\$6 or thermal\$3 or APCVD or | | |
| | | CVD) same (plasma or PECVD or PCVD or | | |
| | | PACVD or (P adj CVD) or (electric near2 | | |
| | 100 | field) or glow or discharge)) | HODAM | 2004/02/02 11 50 |
| _ | 102 | | USPAT; | 2004/03/02 11:50 |
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | , | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
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| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | same (pyrol\$6 or thermal\$3 or APCVD or | | |
| | | ((heat\$3 or pressure or thermal\$3 near2 | 1 | |
| | | (CVD or (vapor near2 deposit\$3))))) same | | |
| | | (plasma or PECVD or PCVD or PACVD or (P | | |
| | | adj CVD) or (electric near2 field) or glow | 1 | |
| | | or discharge)) | I | L |

| 1 - | 1 60 | ((((427/569,575,577) or | USPAT; | 2004/03/02 11:51 |
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| | | (118/723R,723MW)).CCLS.) | US-PGPUB | 2000, 00, 02 22102 |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| } | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| 1 | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj | ! | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | • | |
| | ľ | nanorod or nanowire or (nano adj wire) or | | |
| | İ | nanostructure or (nano adj structure)) | | |
| | | same (pyrol\$6 or thermal\$3 or APCVD or | | |
| | | ((heat\$3 or pressure or thermal\$3) near2 | | |
| | | (CVD or (vapor near2 deposit\$3)))) same | | |
| | | (plasma or PECVD or PCVD or PACVD or (P | | |
| | | adj CVD) or (electric near2 field) or glow | | |
| | | or discharge)) | | |
| - | 3 | ((((427/569,575,577) or | USPAT; | 2004/03/02 12:29 |
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
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| | | (438/570)).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/903).CCLS.) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) same (plasma or PECVD or PCVD or PACVD or (P adj CVD) or (electric near2 field) or glow or discharge)) same (combination or | | |

| - | 57 | (((((427/569,575,577) or | USPAT; | 2004/03/02 11:53 |
|---|----|---|----------|------------------|
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | 1 | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| 1 | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | same (pyrol\$6 or thermal\$3 or APCVD or | | |
| | | ((heat\$3 or pressure or thermal\$3) near2 | | |
| | | (CVD or (vapor near2 deposit\$3)))) same | | |
| | | (plasma or PECVD or PCVD or PACVD or (P | | |
| | | adj CVD) or (electric near2 field) or glow | | |
| | | or discharge))) not ((((427/569,575,577) | | |
| | | or (118/723R,723MW)).CCLS.) | | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | 1 | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | İ | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | 1 | ((427/903).CCLS.) | | |
| - | | ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or | | |
| 1 | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | i | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| 1 | | nanofilament or (nano adj filament) or | | |
| 1 | 1 | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | same (pyrol\$6 or thermal\$3 or APCVD or | | |
| | | ((heat\$3 or pressure or thermal\$3) near2 | | |
| | | (CVD or (vapor near2 deposit\$3)))) same | | |
| | | (plasma or PECVD or PCVD or PACVD or (P | | |
| | | adj CVD) or (electric near2 field) or glow | | |
| | | or discharge)) same (combination or | | |
| | _ | together)) | | 0004/00/55 55 55 |
| - | 2 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:15 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | • |
| 1 | | nanostructure or (nano adj structure)) and | | |
| 1 | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| 1 | | curly or curling or curl or curled) with | | |
| | | (off) with (microwave or RF or plasma or | | |
| | | (electric\$4 near2 field))) and ((straight | | |
| | • | or conform\$8 or align\$5) with (microwave | | |
| | | or RF or plasma or (electric near2 | | |
| | | field))) | | |

| _ | 1 4 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:12 |
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| | | nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or | US-PGPUB | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with | | |
| | | (off or "without") with (microwave or RF | | |
| | | or plasma or (electric\$4 near2 field))) | | |
| | | and ((straight or conform\$8 or align\$5) | | |
| | | with (microwave or RF or plasma or | | |
| | | <pre>(electric near2 field)))</pre> | | |
| - | . 2 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 12:05 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or | | |
| | 1 | nanofiber or (nano adj fiber) or | | |
| | İ | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | 1 | nanostructure or (nano adj structure)) and | | |
| | 1 | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with | | |
| | | <pre>(off or "without") with (microwave or RF or plasma or (electric\$4 near2 field)))</pre> | | |
| | | and ((straight or conform\$8 or align\$5) | | |
| | | with (microwave or RF or plasma or | | |
| | | (electric near2 field))) not ((CNT or | | |
| | | SWCNT or MWCNT or SWNT or MWNT or nanotube | | |
| | | or (nano adj tube) or nanopipe or (nano | | |
| | | adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with | | |
| | | (off) with (microwave or RF or plasma or | | |
| | | <pre>(electric\$4 near2 field))) and ((straight or conform\$8 or align\$5) with (microwave</pre> | | |
| | | or RF or plasma or (electric near2 | | |
| | | field)))) | | |
| _ | 4 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:11 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with | | |
| | | (off or "without" or absent) with | | |
| | | (microwave or RF or plasma or (electric\$4 | | |
| | | <pre>near2 field))) and ((straight or conform\$8 or align\$5) with (microwave or RF or</pre> | | |
| | | plasma or (electric near2 field))) | 1 | |

| _ | 0 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 12:07 |
|-----|----|---|----------|------------------|
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| 1 | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with (off or "without" or absent) with | | |
| | | (microwave or RF or plasma or (electric\$4 | | |
| | | near2 field))) and ((straight or conform\$8 | | |
| | | or align\$5) with (microwave or RF or | | |
| | | plasma or (electric near2 field)))) not | | |
| | | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | | |
| | | nanotube or (nano adj tube) or nanopipe or | | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with | | |
| 1 | | (off or "without") with (microwave or RF | | |
| 1 | | or plasma or (electric\$4 near2 field))) | | |
| | | and ((straight or conform\$8 or align\$5) | | |
| | | with (microwave or RF or plasma or | | |
| | 59 | <pre>(electric near2 field)))) ((CNT or SWCNT or MWCNT or SWNT or MWNT or</pre> | USPAT; | 2004/03/02 13:11 |
| - |] | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | 2004/05/02 15.11 |
| | | (nano adj pipe) or (fullerene adj tube) or | 05 10105 | |
| | | (buckytube) or (bucky adj tube) or | | |
| | ļ | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| • * | | nanorod or nanowire or (nano adj wire) or | | <u> </u> |
| | | nanostructure or (nano adj structure)) | | 1 |
| | | with (defect\$4 or kink\$3 or bent or bend\$3 | | į |
| | | or curly or curling or curl or curled) | | |
| | _ | <pre>with (straight or align\$4 or conform\$6))</pre> | | |
| - | 43 | (((CNT or SWCNT or MWCNT or SWNT or MWNT | USPAT; | 2004/03/02 12:08 |
| | 1 | or nanotube or (nano adj tube) or nanopipe | US-PGPUB | |
| | | or (nano adj pipe) or (fullerene adj tube) | | |
| | | or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | 1 | |
| | | nanostructure or (nano adj structure)) | | |
| | | with (defect\$4 or kink\$3 or bent or bend\$3 | | |
| | | or curly or curling or curl or curled) | | |
| | | with (straight or align\$4 or conform\$6))) | | |
| | | not (((((427/569,575,577) or | | |
| | | (118/723R,723MW)).CCLS.) | | |
| | 1 | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | with (defect\$4 or kink\$3 or bent or bend\$3 | | |
| - | | or curly or curling or curl or curled) | | |
| | 1 | <pre>with (straight or align\$4 or conform\$6)))</pre> | I | I |

| | | · | | |
|-----|----|--|----------|------------------|
| - | 53 | ((((427/569,575,577) or | USPAT; | 2004/03/02 12:14 |
| | | (118/723R,723MW)).CCLS.) | US-PGPUB | |
| | | ((427/77,78,122).CCLS.) (((427/79) or | | |
| | | (438/570)).CCLS.) | | |
| | | ((427/249.1,255.23,255.28).CCLS.) | | |
| | | ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) | | |
| | | ((423/445R, 445B, 447.1, 447.2, 447.3).CCLS.)) | | |
| | | and ((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | with (rectifi\$5 or Schottky or diode or pn | | |
| | | or (p adj n) or \$7junction)) | | |
| _ | 9 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 12:17 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | with (rectifi\$5 or Schottky or diode or pn | | |
| | | or (p adj n) or \$7junction) with (defect\$4 | | |
| | | or kink\$3 or bend\$3 or bent)) | | |
| - | 13 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:08 |
| 1 | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | • | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| l | | nanorod or nanowire or (nano adj wire) or | | |
| 1 | | nanostructure or (nano adj structure)) | | |
| 1 | | same ((rectifi\$5 or Schottky or diode or | | |
| ļ | | pn or (p adj n) or \$7junction) with | | |
| | | (defect\$4 or kink\$3 or bend\$3 or bent))) | | |
| l - | 4 | (((CNT or SWCNT or MWCNT or SWNT or MWNT | USPAT; | 2004/03/02 12:19 |
| | | or nanotube or (nano adj tube) or nanopipe | US-PGPUB | |
| | | or (nano adj pipe) or (fullerene adj tube) | | |
| | | or (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | same ((rectifi\$5 or Schottky or diode or | | |
| | | pn or (p adj n) or \$7junction) with | | |
| | | (defect\$4 or kink\$3 or bend\$3 or bent)))) not (((CNT or SWCNT or MWCNT or SWNT or | | |
| | | MWNT or nanotube or (nano adj tube) or | | |
| | | nanopipe or (nano adj pipe) or (fullerene | 1 | |
| | | adj tube) or (buckytube) or (bucky adj | | |
| | | tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| |] | nanorod or nanowire or (nano adj wire) or | | |
| | ļ | nanostructure or (nano adj structure)) | | |
| | | with (rectifi\$5 or Schottky or diode or pn | | |
| | | or (p adj n) or \$7junction) with (defect\$4 | | |
| L | | or kink\$3 or bend\$3 or bent))) | | |

| | | | | 000010010010 |
|---|----|---|--------------------|------------------|
| _ | 51 | (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | USPAT; US-PGPUB | 2004/03/02 13:05 |
| | | nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor | | |
| | | near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma or (electric\$4 near2 field) or \$4CVD or (vapor near2 deposit\$3))) | | |
| - | 42 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or | USPAT; US-PGPUB | 2004/03/02 12:22 |
| | | (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or | | · |
| | | nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) | | |
| | | or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma or (electric\$4 near2 field) or \$4CVD or | | |
| | | <pre>(vapor near2 deposit\$3))) not (((((427/569,575,577) or (118/723R,723MW)).CCLS.)</pre> | | |
| | | ((427/77,78,122).CCLS.) (((427/79) or (438/570)).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) | | |
| | | ((427/903).CCLS.) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe | | |
| | | or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or \$4CVD or (vapor near2 deposit\$3))) and ((straight or | | |
| | | align\$4 or conform\$6) with (on or plasma or (electric\$4 near2 field) or \$4CVD or (vapor near2 deposit\$3)))) or ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube | | |
| | | or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled) with (off or "without" or absent) with (microwave or RF or plasma or (electric\$4 | | |
| | | <pre>near2 field))) and ((straight or conform\$8 or align\$5) with (microwave or RF or plasma or (electric near2 field)))))</pre> | | |

| | | T | |
|------|--|--------------------|------------------|
| 13 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) same (plasma or PECVD or PCVD or PACVD or (Padj CVD) or (electric near2 field) or glow or discharge)) same (combination or | USPAT; US-PGPUB | 2004/03/02 12:34 |
| | together) (((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) same (plasma or PECVD or PCVD or PACVD or (P adj CVD) or (electric near2 field) or glow or discharge)) same (combination or together)) not ((((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/77,78,122).CCLS.) ((427/79) or (438/570)).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) | USPAT; US-PGPUB | 2004/03/02 12:31 |
| 235 | ((427/903).CCLS.) ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) same (plasma or PECVD or PCVD or PACVD or (P adj CVD) or (electric near2 field) or glow or discharge)) same (combination or together)) ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) same (plasma or PECVD or PCVD or PACVD or (P adj CVD) or (electric near2 field) or glow or discharge)) | USPAT; US-PGPUB | 2004/03/02 12:56 |

| _ | 61 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | USPAT; US-PGPUB | 2004/03/02 12:37 |
|---|----|--|--------------------|------------------|
| | | nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) | | |
| | | same (pyrol\$6 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) with (plasma or PECVD or PCVD or PACVD or (P adj CVD) or | | |
| | | (electric near2 field) or glow or discharge)) | | |
| - | 42 | (((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (buckytube) or | USPAT; US-PGPUB | 2004/03/02 12:37 |
| | | nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) | | |
| | | same (pyro1\$6 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) with (plasma or PECVD or PCVD or PACVD or (P adj CVD) or | | |
| | | (electric near2 field) or glow or discharge))) not (((((427/569,575,577) or (118/723R,723MW)).CCLS.) ((427/77,78,122).CCLS.) (((427/79) or | | ** |
| | | (438/570)).CCLS.) ((427/249.1,255.23,255.28).CCLS.) ((427/256,261).CCLS.) ((427/301).CCLS.) ((427/903).CCLS.) | | |
| | | ((423/445R,445B,447.1,447.2,447.3).CCLS.)) and ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene | | |
| | | adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) same (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 | | |
| | | (CVD or (vapor near2 deposit\$3)))) same (plasma or PECVD or PCVD or PACVD or (Padj CVD) or (electric near2 field) or glow or discharge))) or (((CNT or SWCNT or | | |
| | | MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or | | |
| | | (bucky adj tube) or nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj | | |
| | | structure)) same (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) same (plasma or PECVD or | | |
| | | PCVD or PACVD or (P adj CVD) or (electric near2 field) or glow or discharge)) same (combination or together))) | | _ |

| - | 18 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 12:48 |
|---|----|---|--------------------|------------------|
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | same ((pulse or pulsed or intermit\$7 or | | |
| | | pulsing or (on near2 off) or (stop\$4 near4 | | |
| | | start\$4) or interupt\$6 or interrupt\$5) | | |
| | | <pre>near3 (plasma or (electric\$4 near2 field) or glow or discharge or microwave))</pre> | | |
| _ | 25 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:18 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| 1 | | nanorod or nanowire or (nano adj wire) or | | |
| 1 | | nanostructure or (nano adj structure)) same ((pulse or pulsed or intermit\$7 or | | |
| | | pulsing or (on near2 off) or (stop\$4 near4 | | |
| | | start\$4) or interupt\$6 or interrupt\$5) | | |
| | | near5 (plasma or (electric\$4 near2 field) | | |
| | | or glow or discharge or microwave or | | |
| | | \$4CVD)) | | |
| - | 7 | ((| USPAT; | 2004/03/02 12:50 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | | • |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) | | |
| | | same ((pulse or pulsed or intermit\$7 or | | |
| | | pulsing or (on near2 off) or (stop\$4 near4 | | |
| | | start\$4) or interupt\$6 or interrupt\$5) | | · |
| | | near5 (plasma or (electric\$4 near2 field) or glow or discharge or microwave or | | |
| | | \$4CVD))) not ((CNT or SWCNT or MWCNT or | | |
| | | SWNT or MWNT or nanotube or (nano adj | | |
| | | tube) or nanopipe or (nano adj pipe) or | | |
| | | (fullerene adj tube) or (buckytube) or | | |
| | | (bucky adj tube) or nanofiber or (nano adj | | |
| | | fiber) or nanofilament or (nano adj | | |
| | | filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj | | |
| | | structure)) same ((pulse or pulsed or | | |
| | | intermit\$7 or pulsing or (on near2 off) or | | |
| | | (stop\$4 near4 start\$4) or interupt\$6 or | | |
| | | interrupt\$5) near3 (plasma or (electric\$4 |] | |
| | | near2 field) or glow or discharge or | | |
| 1 | _ | microwave))) | | 2004/02/02 12 12 |
| - | 6 | 1 (| EPO; JPO; DERWENT; | 2004/03/02 13:16 |
| | | nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or | IBM TDB | |
| | | (buckytube) or (bucky adj tube) or | 12122 | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| 1 | | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) and | | |
| | | ((pulse or pulsed or intermit\$7 or pulsing or (on near2 off) or (stop\$4 near4 | | |
| | | start\$4) or interupt\$6 or interrupt\$5) | | |
| | | near5 (plasma or (electric\$4 near2 field) | | |
| | | or glow or discharge or microwave or | | |
| 1 | 1 | \$4CVD)) | [| |

| | 30 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or | EPO; JPO; DERWENT; IBM_TDB | 2004/03/02 13:02 |
|---|----|--|----------------------------------|------------------|
| | | nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 | | |
| | | or pressure or thermal\$3) near2 (CVD or (vapor near2 deposit\$3)))) same (plasma or | | |
| | | PECVD or PCVD or PACVD or (P adj CVD) or (electric near2 field) or glow or discharge)) | | |
| - | 0 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or | EPO; JPO; DERWENT; | 2004/03/02 13:03 |
| | | (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or nanostructure or (nano adj structure)) and | | |
| | | (pyrol\$6 or thermal\$3 or APCVD or ((heat\$3 or pressure or thermal\$3) near2 (CVD or | | |
| | | (vapor near2 deposit\$3)))) same (plasma or PECVD or PCVD or PACVD or (P adj CVD) or (electric near2 field) or glow or | | |
| - | 1 | discharge) same (together or combination)) (CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or | EPO; JPO; DERWENT; | 2004/03/02 13:16 |
| | : | (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or | IBM_TDB | |
| | | nanofiber or (nano adj fiber) or nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and ((defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled or | | |
| | | coil\$3) with (off or plasma or (electric\$4 near2 field) or thermal\$3 or pyrol\$6 or | | |
| | | \$4CVD or (vapor near2 deposit\$3))) and ((straight or align\$4 or conform\$6) with (on or plasma or (electric\$4 near2 field) | | |
| _ | 1 | or \$4CVD or (vapor near2 deposit\$3))) ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or | EPO; JPO; DERWENT; | 2004/03/02 13:09 |
| | | (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and ((rectifi\$5 or Schottky or diode or pn or (p adj n) or \$7junction) with (defect\$4 or | | |
| _ | 2 | kink\$3 or bend\$3 or bent))) ((CNT or SWCNT or MWCNT or SWNT or MWNT or nanotube or (nano adj tube) or nanopipe or | EPO; JPO; DERWENT; | 2004/03/02 13:10 |
| | | (nano adj pipe) or (fullerene adj tube) or (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) with (defect\$4 or kink\$3 or bent or bend\$3 or curly or curling or curl or curled or | | |
| | | coil\$3) with (straight or align\$4 or conform\$6)) | | |

| - | . 0 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | EPO; JPO; | 2004/03/02 13:11 |
|----------|---------|--|-----------|------------------|
| | | nanotube or (nano adj tube) or nanopipe or | DERWENT; | |
| | | (nano adj pipe) or (fullerene adj tube) or | IBM_TDB | |
| | | (buckytube) or (bucky adj tube) or | | |
| ! | | nanofiber or (nano adj fiber) or | | |
| 1 | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| ļ | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | : |
| | | curly or curling or curl or curled or | | |
| | | coil\$3) with (off or "without" or absent) | ! | |
| | | with (microwave or RF or plasma or | | |
| | | (electric\$4 near2 field))) and ((straight | | |
| | | or conform\$8 or align\$5) with (microwave | | · |
| | | or RF or plasma or (electric near2 | | |
| | | field))) | | |
| | 1 / 1 2 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:14 |
| - | 1413 | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | ; | (nano adj pipe) or (fullerene adj tube) or | 00 10100 | |
| | | | | · |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled or | | |
| | | coil\$3) and (microwave or RF or plasma or | | |
| | | (electric\$4 near2 field) or glow or | | |
| | | discharge)) and ((straight or conform\$8 or | | |
| | | align\$5)) | | |
| - | 3 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | EPO; JPO; | 2004/03/02 13:15 |
| | | nanotube or (nano adj tube) or nanopipe or | DERWENT; | |
| 1 | | (nano adj pipe) or (fullerene adj tube) or | IBM_TDB | |
| | | (buckytube) or (bucky adj tube) or | | |
| 1 | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure)) and | | |
| | 1 | ((defect\$4 or kink\$3 or bent or bend\$3 or | | |
| | | curly or curling or curl or curled or | | |
| | | coil\$3) and (microwave or RF or plasma or | | · · · |
| | | (electric\$4 near2 field) or glow or | | |
| | | discharge)) and ((straight or conform\$8 or | | |
| | | align\$5)) | | |
| _ | 182 | · - | USPAT; | 2004/03/02 13:33 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | 1 | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| Į | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) and | | |
| | | ((pulse or pulsed or intermit\$7 or pulsing | | |
| | | or (on near2 off) or (stop\$4 near4 | | |
| | | start\$4) or interupt\$6 or interrupt\$5) | | |
| | | near5 (plasma or (electric\$4 near2 field) | | 1 |
| | | | | |
| | | or glow or discharge or microwave or | 1 | |
| 1 | | \$4CVD)) | L | |

| | | ATTOMIC OF MEANING OF MEANING OF | USPAT; | 2004/03/02 13:19 |
|---|-----|---|-----------|------------------|
| - | 157 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | US-PGPUB | 2004/03/02 13:19 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | , | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) and | | |
| | | ((pulse or pulsed or intermit\$7 or pulsing | | |
| | | or (on near2 off) or (stop\$4 near4 | | |
| | | start\$4) or interupt\$6 or interrupt\$5) | | |
| | | near5 (plasma or (electric\$4 near2 field) | | |
| | | or glow or discharge or microwave or | | |
| | | \$4CVD))) not ((CNT or SWCNT or MWCNT or | | |
| | | SWNT or MWNT or nanotube or (nano adj | | |
| | | tube) or nanopipe or (nano adj pipe) or | | |
| | | (fullerene adj tube) or (buckytube) or | | ļ |
| | | (bucky adj tube) or nanofiber or (nano adj | | |
| | | fiber) or nanofilament or (nano adj | 1 | |
| | | filament) or nanorod or nanowire or (nano | | |
| | | adj wire) or nanostructure or (nano adj | | |
| | | structure)) same ((pulse or pulsed or | | |
| | | intermit\$7 or pulsing or (on near2 off) or | ĺ | |
| | | (stop\$4 near4 start\$4) or interupt\$6 or | | |
| | | interrupt\$5) near5 (plasma or (electric\$4 | | |
| | | near2 field) or glow or discharge or | | |
| | | microwave or \$4CVD))) | | 0004/00/00 10 11 |
| - | 35 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:41 |
| | ł | nanotube or (nano adj tube) or nanopipe or | US-PGPUB | |
| | 1 | (nano adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | Ì | |
| | | nanomaterial or (nano adj material)) same | | |
| | | ((thermal or pyrol\$6) near3 (\$4CVD or | | |
| | | (vapor adj deposit\$3))) same (PECVD or | | |
| | | PACVD or PCVD or (P adj CVD) or (glow adj | | |
| | 1 | discharge) or (plasma near3 (\$4CVD or | | |
| | | (vapor adj deposit\$3)))) | | 0004/00/00 00 |
| - | 3 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 13:46 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | | nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or | İ | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) and | | |
| | | ((((thermal or pyrol\$6) near3 (\$4CVD or | | |
| | | (vapor adj deposit\$3))) same (PECVD or | | |
| | | PACVD or PCVD or (P adj CVD) or (glow adj | | |
| | | discharge) or (plasma near3 (\$4CVD or | | |
| | | (vapor adj deposit\$3)))) same (kink\$3 or | | |
| | | defect\$5 or junction or heterojunction or | | |
| | | bend\$3 or coil\$3 or curl\$3 or bent))) | | |

| | | | T | |
|---|-----|---|---------------------|------------------|
| - | 12 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 15:54 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| ł | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | | nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | ļ | ÷ |
| | 1 | nanomaterial or (nano adj material)) and | | |
| | ļ | ((((thermal or pyrol\$6) near3 (\$4CVD or | | |
| | | (vapor adj deposit\$3))) same (PECVD or | | |
| | | PACVD or PCVD or (P adj CVD) or (glow adj | | |
| 1 | | discharge) or (plasma near3 (\$4CVD or | | |
| 1 | | (vapor adj deposit\$3)))) same (combin\$6 or | | |
| | 0 | together or conjunction))) (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 15:57 |
| - | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | 2004/03/02 13:37 |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | ļ | nanofiber or (nano adj fiber) or | IBM TDB | |
| 1 | | nanofilament or (nano adj filament) or | 12 | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | | |
| | 1 | nanomaterial or (nano adj material)) same | | |
| | | (base near2 grow\$3) same (encapsulat\$5 | | |
| | | near5 (particle or island or cataly\$4)) | | |
| - | 10 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 16:21 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | | nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) same | | |
| | | (base near2 grow\$3) same ((particle or | i | |
| | 1.0 | island or cataly\$4)) | HODAM. | 2004/02/02 16 07 |
| - | 10 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 16:27 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| |] | (buckytube) or (bucky adj tube) or nanofiber or (nano adj fiber) or | DERWENT; IBM TDB | |
| | | nanofilament or (nano adj filament) or | 1211,-1212 | |
| | | nanorod or nanowire or (nano adj wire) or | * | |
| | 1 | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) same | | |
| | | (((multiple or plural\$3 or several or | | |
| | | many) near3 (substrate)) with (product\$6 | | |
| | | or increas\$3)) | | |
| - | 124 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 16:30 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | |
| | 1 | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | | nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or nanomaterial or (nano adj material)) same | | |
| | | (((multiple or plural\$3 or several or | | |
| | | many) near2 (substrate))) | | |
| | L | | | |

| _ | 114 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 16:29 |
|----|-----|--|-----------|--------------------|
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | | nanofiber or (nano adj fiber) or | IBM TDB | |
| | | nanofilament or (nano adj filament) or | _ | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | ļ | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) same | | |
| | İ | (((multiple or plural\$3 or several or | | |
| | | many) near2 (substrate)))) not ((CNT or | | |
| | | SWCNT or MWCNT or SWNT or MWNT or nanotube | | |
| | | or (nano adj tube) or nanopipe or (nano | | |
| | | adj pipe) or (fullerene adj tube) or | | |
| | | (buckytube) or (bucky adj tube) or | | |
| | | nanofiber or (nano adj fiber) or | | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | | |
| 1 | | nanomaterial or (nano adj material)) same | | |
| | | (((multiple or plural\$3 or several or | | |
| | ' | many) near3 (substrate)) with (product\$6 | | |
| | | or increas\$3))) | | |
| _ | 29 | (CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/03 09:05 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | 2001, 00, 00 03.03 |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | | nanofiber or (nano adj fiber) or | IBM TDB | |
| | | nanofilament or (nano adj filament) or | 1511_155 | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | - | |
| | | nanomaterial or (nano adj material)) same | | |
| | | (((multiple or plural\$3 or several or | | |
| 1 | | many) near2 (substrate)) with (\$4CVD or | | |
| 1 | | coat\$3 or deposit\$3)) | | |
| 1_ | 15 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | HCDAT. | 2004/03/02 16:48 |
| | 15 | nanotube or (nano adj tube) or nanopipe or | USPAT; | 2004/03/02 16:48 |
| | | (nano adj pipe) or (fullerene adj tube) or | US-PGPUB; | |
| | | | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | | nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or | | |
| | | nanorod or nanowire or (nano adj wire) or | | |
| | | nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) same | | |
| | | (\$4CVD or (vapor near2 deposit\$3)) same | | |
| | 1.0 | length same etch\$3) | | 0004/00/00 15 |
| - | 16 | ((CNT or SWCNT or MWCNT or SWNT or MWNT or | USPAT; | 2004/03/02 16:50 |
| | | nanotube or (nano adj tube) or nanopipe or | US-PGPUB; | |
| | | (nano adj pipe) or (fullerene adj tube) or | EPO; JPO; | |
| | | (buckytube) or (bucky adj tube) or | DERWENT; | |
| | 1 | nanofiber or (nano adj fiber) or | IBM_TDB | |
| | | nanofilament or (nano adj filament) or | | |
| 1 | | nanorod or nanowire or (nano adj wire) or | | |
| | [| nanostructure or (nano adj structure) or | | |
| | | nanomaterial or (nano adj material)) same | | |
| | | (ammonia or NH3 or "NH.sub.3") with | | |
| | | etch\$3) | | I |